CLAIMS

We claim:

- 1 1. A method for ordering multimedia content, comprising the steps of:
 2 segmenting the multimedia content to extract objects;
- 3 extracting and associating features of the objects to produce content

4 entities;

- 5 coding the content entities to produce directed acyclic graphs of the
- 6 content entities, each directed acyclic graph representing a particular
- 7 interpretation of the multimedia content;
- 8 measuring attributes of each content entity; and
- 9 assigning the measured attributes to each corresponding content entity
- in the directed acyclic graphs to rank order the multimedia content.
 - 1 2. The method of claim 1 wherein the measured attributes include intensity
- 2 attributes.
- 1 3. The method of claim 1 wherein the measured attributes include direction
- 2 attributes.

- 1 4. The method of claim 1 wherein the measured attributes include spatial
- 2 attributes.
- 1 5. The method of claim 1 wherein the measured attributes include temporal
- 2 attributes.
- 1 6. The method of claim 1 wherein the measured attributes are arranged in an
- 2 increasing rank order.
- 7. The method of claim 1 wherein the measured attributes are arranged in an
- 2 decreasing rank order.
- 1 8. The method of claim 1 further comprising the step of:
- 2 traversing the multimedia content according to the directed acylic
- 3 graph and the measured attributes assigned to the content entities.
- 1 9. The method of claim 1 further comprising the step of:
- 2 summarizing the multimedia content according to the directed acylic
- 3 graph and the measured attributes assigned to the content entities.
- 1 10. The method of claim 1 wherein the multimedia content is a three
- 2 dimensional video sequence.

- 3 11. The method of claim 1 wherein nodes of the directed acyclic graphs
- 4 represent the content entities and edges represent breaks in the segmentation,
- 5 and the measured attributes are associated with the corresponding edges.
- 1 12. The method of claim 8 wherein at least one secondary content entity is
- 2 associated with a particular content entity, and wherein the secondary
- 3 content entity is selected during the traversing.
- 1 13. The method of claim 9 wherein a summary of the multimedia is a
- 2 selected permutation of the content entities according to the associated
- 3 ranks.